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Fritz

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(54) **SELF-FOAMING SOLUBLE BEVERAGE
POWDER**

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(58) **Field of Search** 426/569, 594

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,141,755 A	8/1992	Weisman	426/42
5,190,779 A	3/1993	Schlecht	426/434
5,780,092 A *	7/1998	Agbo et al.	
5,882,716 A	3/1999	Munz-Schaerer	426/591
5,897,903 A	4/1999	Gerhard-Rieben et al.	426/433
5,997,929 A	12/1999	Heeb et al.	426/433

FOREIGN PATENT DOCUMENTS

DE	297 07 107 U1	7/1997
EP	0839 457 A1	5/1998
EP	100 548 A1	5/2000
GB	2 157 939 A	11/1985

OTHER PUBLICATIONS

A. Franck, "Prebiotic sweeteners blends", XP002147229, Food & Marketing Technology, Orafit Active Food Ingredients, No. 13, vol. 1, pp. 22-24 (1999).

* cited by examiner

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(57) **ABSTRACT**

The invention relates to a soluble coffee beverage powder, which, upon the addition of water, is capable of forming a coffee beverage having a foamed upper surface. The soluble coffee beverage powder includes a soluble gas containing matrix comprising soluble coffee solids and a soluble filler, with the soluble filler constituting at least about 35% by weight of the dry matter of the matrix in order to increase the volume of the soluble coffee beverage powder incorporating gas. A particular preferred filler is an oligofructose that has a good solubility and which positively influences on the taste of the prepared coffee beverage. The invention also relates a soluble coffee beverage powder providing a black foamed coffee. The invention also provides a process for preparing such a soluble coffee beverage powder.

12 Claims, No Drawings